

ABSTRACT

A position detection means generates a position error signal corresponding to a current position of a head, a position control means generates a position control signal from the position error signal, a voltage detection means detects a voltage signal generated when driving an actuator by a driving means, a disturbance estimation means generates a disturbance estimation signal from a driving signal and the voltage signal, and a correction means outputs the driving signal from the disturbance estimation signal and the position control signal. The disturbance estimation means includes a comparison means which compares the disturbance estimation signal with a voltage signal and which outputs a deviation signal, and an addition means which adds a signal obtained by multiplying an integral signal, which is obtained by integrating the deviation signal, by a first coefficient and a signal obtained by multiplying a proportional signal proportional to the deviation signal by a second coefficient, and which generates the disturbance estimation signal. The disturbance estimation signal suppresses a tracking deviation of the head due to a disturbance such as an inertial force applied to the head actuator and stabilizes head positioning control.